## **CLAIMS**

- 1. A device for imposing a negative pressure on the surface of the heart comprising a housing having a bottom surface shaped to engage the surface of the heart, a plurality of suction ports having openings disposed in the bottom surface of the housing, a vacuum line operably connected to the suction ports.
- 2. The device of claim 1 further comprising a means for introducing a negative pressure located in the interior of the housing.
- 3. The device of claim 2 wherein the means for introducing a negative pressure is comprised of a pressure conducting space connected to an inlet and to each suction port.
- 4. The device of claim 2 wherein the housing is annular and has a plurality of suction ports disposed about the periphery.
- 5. The device of claim 4 further comprising at least one instrument port located in the annular housing.
  - 6. The device of claim 2 wherein the housing is dome-shaped.

- 7. The device of claim 6 wherein the means for introducing a negative pressure is comprised of an inlet and a pressure conducting chamber connected to each suction port.
- 8. The device of claim 6 further comprising at least one instrument port located in the dome-shaped portion of the housing.
- 9. The device of claim 8 wherein the instrument port is further comprised of means for attaching an instrument.
- 10. A device for imposing a negative pressure on the surface of the heart comprising: a shaft attached to a suction port assembly, wherein said suction port assembly is comprised of a block having a plurality of suction ports disposed therein, and wherein said block is attached to a vacuum line.
- 11. The device of claim 10 wherein the openings of the plurality of suction ports are disposed in the bottom surface of the block.
- 12. The device of claim 11 further comprising means for introducing a negative pressure contained within said block and connected to each of said plurality of suction ports.

- 13. The device of claim 12 comprising a pair of shafts interlinked by a pivot, wherein each shaft is attached to a suction port assembly.
- 14. The device of claim 12 wherein the suction port assembly is comprised of an array of said plurality of suction ports, wherein each suction port has a passage communication with a pressure conducting space on the interior of said block, and wherein the pressure conducting space has an inlet an . d is attached to a vacuum line affixed to the shaft.